

Please amend the application as follows:

In the Claims

Claims 1 and 20 have been amended and are presented below in amended form. New Claims 45-51 have been added. In accordance with 37 C.F.R. § 1.121(c)(1)(ii), amendments to the claims are indicated in the attached "Marked Up Version of Amendments" (page i).

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1. (Twice Amended) A method of delivering a therapeutic dose of a bioactive agent to the pulmonary system of a subject, in a single, breath-activated step, comprising:

administering particles comprising a bioactive agent, from a receptacle having a mass of particles, to a subject's respiratory tract,

wherein:

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- i) the particles administered to the subject's respiratory tract have a tap density of less than 0.4 g/cm^3 ;
 - ii)
 - a) at least 50% of the particles have a fine particle fraction less than $4.0 \text{ }\mu\text{m}$; and/or
 - b) at least 75% of the particles have a fine particle fraction less than $6.8 \text{ }\mu\text{m}$; and
 - iii) at least about 50% of the mass of particles stored in the receptacle is delivered to the pulmonary system of the subject.
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20. (Twice Amended) A method of delivering a therapeutic dose of a bioactive agent to the pulmonary system of a subject, in a single breath, comprising:

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administering dry powder particles comprising a bioactive agent, from a receptacle having a mass of particles, to a subject's respiratory tract in a single breath, wherein:

- i) the particles have a tap density less than about 0.4 g/cm^3 ; and
 - ii) at least about 5 milligrams of the bioactive agent is delivered to the pulmonary system of the subject.
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45. (New) The method of Claim 1 wherein at least 50% of the particles have a fine particle fraction less than 4.0 μm .
46. (New) The method of Claim 1 wherein at least 75% of the particles have a fine particle fraction less than 6.8 μm .
47. (New) The method of Claim 20 wherein at least 50% of the particles have a fine particle fraction less than 4.0 μm .
48. (New) The method of Claim 20 wherein at least 75% of the particles have a fine particle fraction less than 6.8 μm .
49. (New) The method of Claim 1 wherein said particles are spray dried particles.
50. (New) The method of Claim 20 wherein said particles are spray dried particles.
51. (New) The method of Claim 20 wherein the particles deliver at least 10 milligrams of the bioactive agent.

REMARKS

Claims 1 and 20 have been amended and new Claims 45-51 have been added. Claims 1-51 are pending.

Support for the amendments to Claims 1 and 20 is found throughout the specification.

Support for the recitation "at least about 50% of the mass of particles stored in the receptacle is delivered to the pulmonary system of the subject" in amended Claim 1 is found, for example, at page 5, lines 4-8, page 12, lines 25-27 and page 16, lines 5-7.

Support for the recitation "at least about 5 milligrams of the bioactive agent is delivered to the pulmonary system of the subject" in amended Claim 20 is found, for example, at page 5,